

14. (Amended) The method of Claim 13, wherein comparing each module block of outdated information to a corresponding module block of updated information identifies a plurality of module blocks in the updated module containing updated information, wherein the plurality of module blocks containing updated information are [downloaded] downloaded via the [network] common communications link from the first peer computer to the second computer, and wherein the module blocks containing outdated information are replaced with the plurality of module blocks containing updated information.

15. (Amended) A method for updating information stored in memory of a subscribing computer connected to a publishing computer via a [network] common communications link, the method comprising:

(a) subscribing to published information stored in memory of the publishing computer;

(b) comparing the information stored in memory of the subscribing computer to the published information stored in memory of the publishing computer;

(c) responsive to the published information stored in memory of the publishing computer having been changed from the information stored in memory of the subscribing computer, identifying which published information stored in memory of the publishing computer has been changed;

(d) downloading from the publishing computer to the subscribing computer via the [network] common communications link only that published information which has changed from the information stored in the memory of the subscribing computer; and

(e) updating the information stored in memory of the subscribing computer only with that published information which has changed and has been downloaded from the publishing computer.

16. (Amended) A method of updating a plurality of user modules of information via a

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CHRISTENSEN  
O'CONNOR  
JOHNSON  
KINDNESS, LLC

LAW OFFICES

1425 PETER AVENUE  
SUITE 300  
SEATTLE, WASH. 98101-3100  
TEL: 206.461.1400 FAX: 206.461.1401

[network] common communications link interconnecting a host computer and a user computer, the user computer having a user memory for storing user modules, each user module including a plurality of user module blocks, the host computer having a host memory for storing host modules, each host module including a plurality of module blocks, the method comprising:

(a) identifying a first user module stored in user memory, wherein at least one first user module block of the first user module comprises a second user module of information;

(b) identifying a first host module stored in host memory that corresponds to the first user module, wherein each first host module block corresponds to a first user module block, wherein at least one first host module block comprises a second host module of information, and wherein the second host module corresponds to the second user module;

(c) comparing the first host module to the first user module to determine if the first host module contains more recent information,

(d) if the first host module contains more recent information, comparing each first host module block to the corresponding first user module block to determine if the first host module block contains more recent information than the corresponding first user module block;

(e) if the first host module block comprises a second host module of information, comparing each second host module block to the corresponding second user module block to determine if the second host module block contains more recent information than the corresponding second user module block;

(f) downloading via the [network] common communications link, each host module block containing more recent information into user memory; and

(g) updating each corresponding user module block with the corresponding downloaded host module block.

Please add new Claims 17-46 as follows:

17. The method of Claim 12, further comprising repeating (a) through (c) for each module of

CHRISTENSEN  
O'CONNOR  
JOHNSON  
KINDNESS PLLC

LOU O'CONNOR  
1420 PLYMOUTH AVENUE  
SUITE 100  
SEATTLE, WASHINGTON 98101-1441  
TEL: 206.461.6400 FAX: 206.461.6401

1 subscriber module.

2 27. The method of Claim 25, wherein at least one publisher module contains a nested  
3 publisher module.

4 28. The method of Claim 25, wherein comparing the information comprises comparing  
5 subscriber modules to publisher modules to identify changed publisher modules.

6 29. The method of Claim 25, wherein downloading the information comprises downloading  
7 only the changed publisher modules, and wherein updating the subscribing computer comprises  
8 updating only with the changed publisher modules.

9 30. The method of Claim 25, wherein the subscriber modules comprise subscriber module  
10 blocks, and wherein the publisher modules comprise publisher module blocks.

11 31. The method of Claim 30, wherein comparing the information comprises comparing  
12 subscriber module blocks to publisher module blocks to identify changed publisher module blocks.

13 32. The method of Claim 30, wherein downloading the information comprises downloading  
14 only the changed publisher module blocks, and wherein updating the subscribing computer comprises  
15 updating only with the changed publisher module blocks.

16 33. The method of Claim 15, further comprising:

17 (a) identifying an nth publishing computer connected to the subscribing computer  
18 via the common communications link;

19 (b) subscribing to published information stored in memory of the nth publishing  
20 computer;

21 (c) comparing the information stored in memory of the subscribing computer to the  
22 published information stored in memory of the nth publishing computer;

23 (d) responsive to the published information stored in memory of the nth publishing  
24 computer having been changed from the information stored in memory of the subscribing computer,  
25 identifying which published information stored in memory of the nth publishing computer has been

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CHRISTENSEN  
O'CONNOR  
JOHNSON  
KINDNESS PLLC

LAW OFFICES

1400 FIFTH AVENUE  
SUITE 1800  
SEATTLE, WASHINGTON 98101-3241  
TEL: 206.461.1100 FAX: 206.461.1101

1 outdated information stored in the first peer computer.

2 18. The method of Claim 12, wherein the at least one module block of outdated information  
3 contains a nested outdated module.

4 19. The method of Claim 12, wherein the at least one module block of updated information  
5 contains a nested updated module.

6 20. The method of Claim 12, wherein the module of updated information contains more  
7 recent information.

8 21. The method of Claim 12, wherein the module of updated information contains new  
9 information.

10 22. The method of Claim 12, further comprising:

11 (a) identifying an nth module of updated information stored in memory of an nth  
12 peer computer;

13 (b) comparing the nth module of updated information to the module of outdated  
14 information stored in the memory of the first peer computer; and

15 (c) if the nth module contains any updated nth module blocks, downloading only the  
16 updated nth module blocks and updating the first peer computer with the updated nth module blocks  
17 downloaded from the nth peer computer.

18 23. The method of Claim 15, wherein the published information which has changed is more  
19 recent information.

20 24. The method of Claim 15, wherein the published information which has changed is new  
21 information.

22 25. The method of Claim 15, wherein the information stored in the memory of a subscribing  
23 computer is stored in subscriber modules, and wherein the published information is stored in publisher  
24 modules.

25 26. The method of Claim 25, wherein at least one subscriber module contains a nested

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CHRISTENSEN  
O'CONNOR  
JOHNSON  
KINDNESS PLLC

LAW OFFICES

400 FIFTH AVENUE  
SUITE 1100  
SEATTLE, WASHINGTON 98101-3100  
TEL: 206.461.1000 FAX: 206.461.1001

changed;

(e) downloading from the nth publishing computer to the subscribing computer via the common communications link only that published information which has changed from the information stored in the memory of the subscribing computer; and

(f) updating the information stored in memory of the subscribing computer only with that published information which has changed and has been downloaded from the nth publishing computer.

34. The method of Claim 16, further comprising repeating (b) through (g) for each of a plurality of user modules.

35. The method of claim 16, further comprising:

(a) comparing the first host module to the first user module to determine if the first host module contains new information;

(b) if the first host module contains new information, comparing the first host module blocks to the first user module blocks to determine if any first host module blocks contain new information;

(c) if the first host module block comprises a second host module of information, comparing the second host module blocks to the second user module blocks to determine if any second host module block contains new information;

(d) downloading only the host module blocks containing new information; and

(e) updating the first user module with only the new information contained in the downloaded host module blocks.

36. The method of Claim 16, further comprising:

(a) identifying an nth host module stored in an nth host computer, wherein the nth host module corresponds to the first user module, wherein at least one nth host module block comprises a nested nth host module, and wherein the nested nth host module corresponds to the second user

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CHRISTENSEN  
O'CONNOR  
JOHNSON  
KINDNESS PLLC

LAW OFFICES

1000 SIXTH AVENUE  
SUITE 2000  
SEATTLE, WASHINGTON 98101-2347  
TELEPHONE: (206) 442-5100

1 module;

2 (b) comparing the nth host module to the first user module to determine if the nth  
3 host module contains changed information;

4 (c) if the nth host module contains changed information, comparing the nth host  
5 module blocks to the first user module blocks to determine which nth host module blocks contain  
6 changed information;

7 (d) if the nth module block comprises a nested nth host module of information,  
8 comparing the nested nth host module blocks to the second user module blocks to determine which  
9 nested nth host module blocks contain changed information; and

10 (e) downloading only the nth host module blocks containing changed information  
11 and updating the user module with only the downloaded nth host module blocks containing changed  
12 information.

13 37. The method of Claim 36, wherein the changed information is more recent information.

14 38. The method of Claim 36, wherein the changed information is new information.

15 39. The method of Claim 16 further comprising:

16 (a) identifying a first alternate host module including a plurality of first alternate  
17 host module blocks stored in an alternate host computer, wherein the first alternate host module  
18 corresponds to the first user module, wherein at least one first alternate host module block comprises a  
19 second alternate host module that includes a plurality of second alternate host module blocks, and  
20 wherein the second alternate host module corresponds to the second user module;

21 (b) comparing the first alternate host module to the first user module to determine if  
22 the first alternate host module contains changed information;

23 (c) if the first alternate host module contains changed information, comparing the  
24 first alternate host module blocks to the first user module blocks to determine which first alternate host  
25 module blocks contain changed information;

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CHRISTENSEN  
O'CONNOR  
JOHNSON  
KINDNESS PLLC

LAW OFFICES

1420 FIFTH AVENUE  
SUITE 1200  
SEATTLE, WASHINGTON 98101-3147  
TELEPHONE (206) 461-4000

1 (d) if the first alternate host module block comprises a second alternate host module  
2 of information, comparing the second alternate host module blocks to the second user module blocks to  
3 determine which second alternate host module blocks contain changed information; and

4 (e) downloading only the alternate host module blocks containing changed  
5 information and updating the user module with only the downloaded alternate host module blocks  
6 containing changed information.

7 40. The method of Claim 39, wherein the changed information is more recent information.

8 41. The method of Claim 39, wherein the changed information is new information.

9 42. The computer-readable medium of Claim 1, wherein the comparison component  
10 identifies which module blocks in the updated module of information contain new information.

11 43. The computer-readable medium of Claim 1, wherein the download component  
12 downloads module blocks in the updated module of information containing new information.

13 44. The computer-readable medium of Claim 1, wherein the update component updates the  
14 out-of-date module with the module blocks of the updated module containing new information that  
15 were downloaded by the download component.

16 45. The computer-readable medium of Claim 1, wherein the out-of-date module of  
17 information contains a submodule.

18 46. The computer-readable medium of Claim 1, wherein the updated module of information  
19 contains a submodule.

20 47. The method of Claim 4, wherein identifying the second module containing more recent  
21 information comprises:

22 (a) determining a first origin date for the first module;

23 (b) determining a second origin date for the second module; and

24 (c) comparing the first origin date for the first module to the second origin date for  
25 the second module.—

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